

PRISM ASSEMBLY WITH CHOLESTERIC REFLECTORS

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Abstract Of The Disclosure

A beam splitter is constructed using one or more
5 cholesteric layers. Each cholesteric layer reflects light of a
given wavelength and polarization. The beam splitter is placed
in a prism assembly. The cholesteric layers of the beam
splitter are chosen such that portions of light entering the
beam splitter are individually directed to a specific light path
10 or to a processing face of the prism assembly. A microdisplay
is mounted on each processing faces forms a kernel, and each
microdisplay processes the light portions (light beams) directed
toward them. Light beams reflected from the microdisplays have
image content added to them from the microdisplays. The kernel
15 is utilized in a light management system, such as that used in a
video projection (e.g., projection television).